

6BE3

Half-Wave Vacuum Rectifier

DUODECAR TYPE

Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC). 6.3 ± 0.6 volts
Current at heater volts = 6.3 1.200 amp

Peak heater-cathode voltage:

Heater negative with respect to cathode.^a 5000^b max. volts

Heater positive with respect to cathode. 300^c max. volts

Direct Interelectrode Capacitances (Approx.):^d

P to (K,H). 10 pf
K to (P,H). 8.0 pf
H to K. 3.4 pf

Mechanical:

Operating Position. Any

Type of Cathode Coated Unipotential

Maximum Overall Length. 2.875"

Seated Length 2.250" to 2.500"

Diameter. 1.062" to 1.188"

Dimensional Outline See *General Section*

Bulb. T9

Base. Small-Button Duodecar 12-Pin (JEDEC No. E12-70)

Basing Designation for BOTTOM VIEW. 12BL

Pin 1-Heater

Pin 2-No Internal
Connection

Pin 3-Same as Pin 2

Pin 4-Plate

Pin 5-Same as Pin 2

Pin 6-Same as Pin 2

Pin 7-Cathode

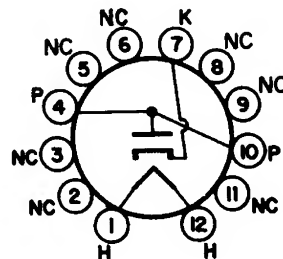
Pin 8-Same as Pin 2

Pin 9-Same as Pin 2

Pin 10-Plate

Pin 11-Same as Pin 2

Pin 12-Heater



DAMPER SERVICE

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system^e

Peak Inverse Plate Voltage^a 5000 max. volts

Peak Plate Current. 1200 max. ma

DC Plate Current. 200 max. ma

Plate Dissipation 6.5 max. watts

Characteristics, Instantaneous Value:

Tube Voltage Drop for plate

ma. = 350 25 volts



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- a This rating is applicable when the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.
- b The dc component must not exceed 900 volts.
- c The dc component must not exceed 100 volts.
- d Without external shield.
- e As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

